Advanced Integrated Maintenance Support System

Presented by:

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Maintenance Management Products

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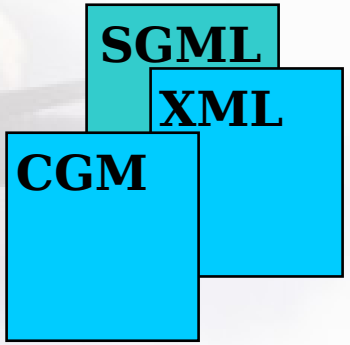
AIMSS Background

- **Developed in 1992**
  - Presentation system developed under contract to the Navy for the AEGIS Weapon System program
  - Authoring tools developed on IR&D for internal use only
- **Commercial release in 1993**
  - Authoring tools and presentation system were packaged and sold as a COTS IETM development system
  - Software sales used primarily to subsidize product development, RTSC not in the “software business”
- **Today - Market Leader**
  - AIMSS is used on more DoD programs than any other high-end class IV/V IETM development system on the market

Design Considerations

Users with established ways of accessing information



AIMS

New and future specifications and standards

Volumes of legacy data in various formats

Writers with existing conceptions of arranging

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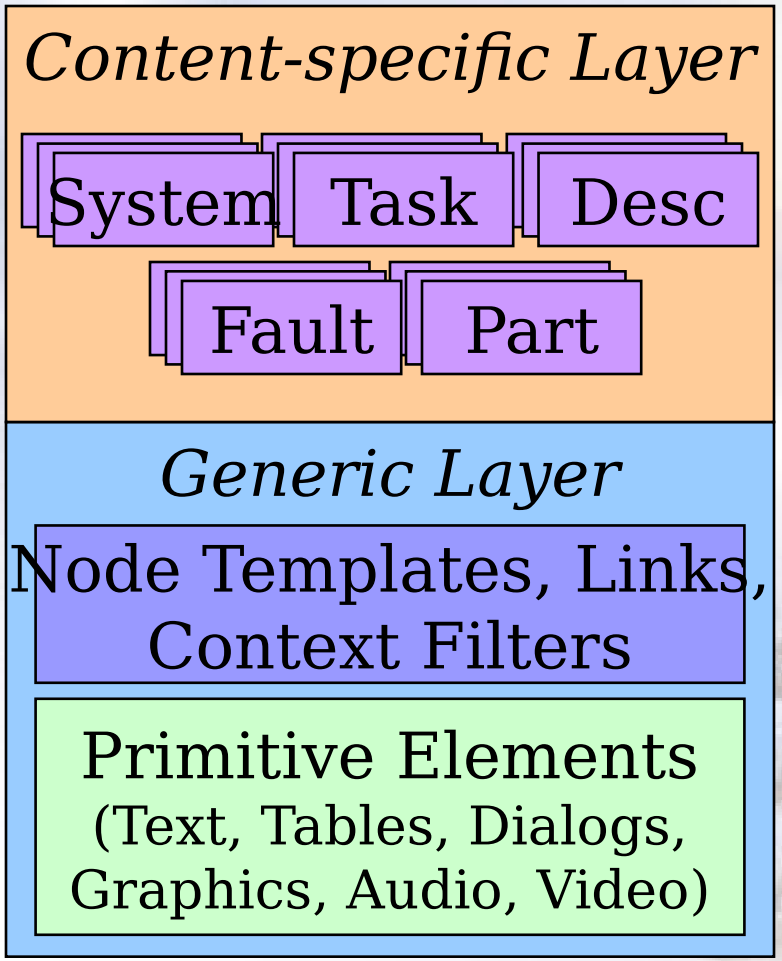
Content Data Model



- **Flexible content layer**
  - Maintenance-based data entry templates
  - Hierarchically structured by system and part
  - Facilitates LSAR data import
  - Extensible to ETM and ICW
- **Mandatory generic layer**
  - Enforces data interoperability
  - Navigation and filtering rules
  - Configuration management version control
  - Format free reusable data

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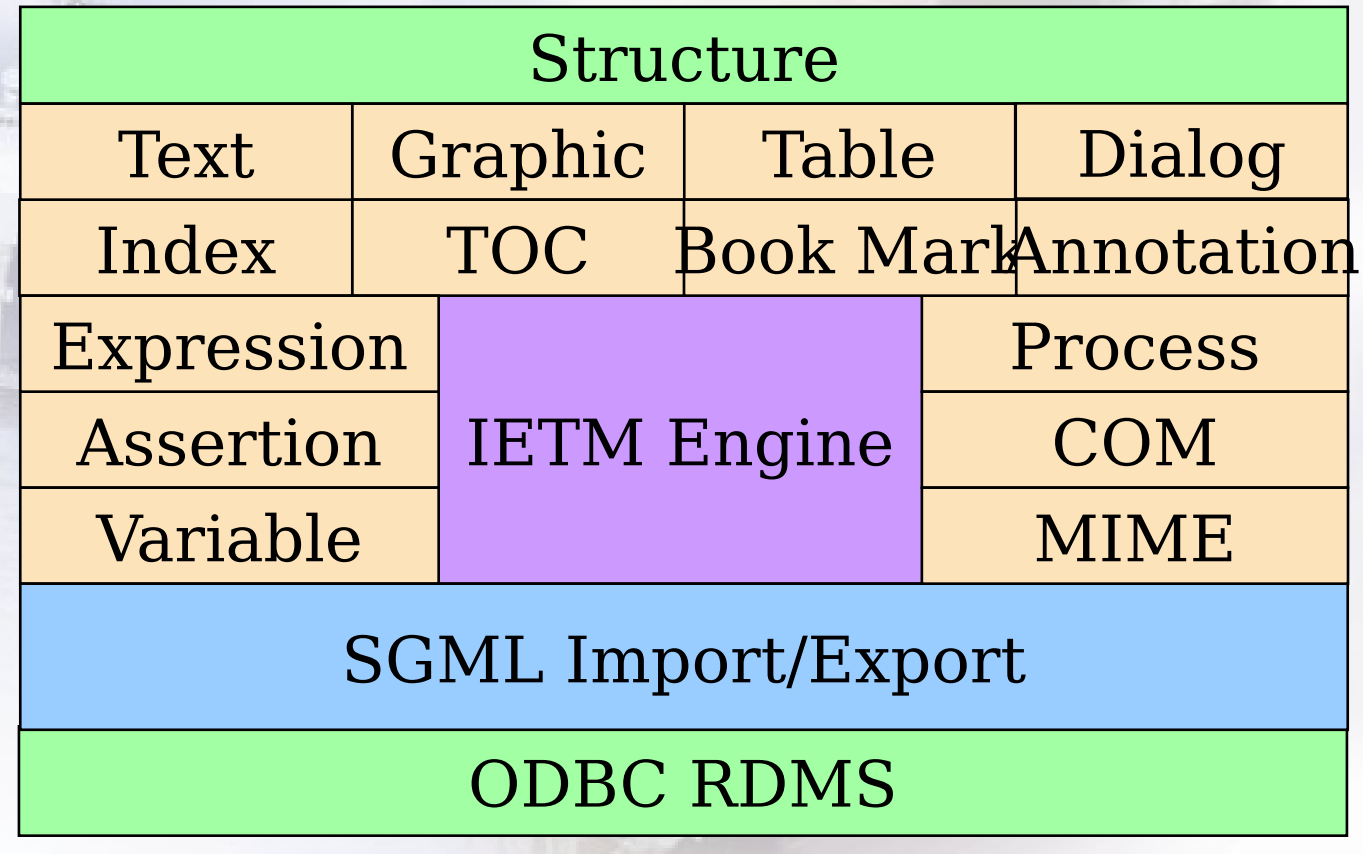
Authoring System Architecture

Windows NT, 98, 2000



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Authoring System Features

- **Features**
  - WYSIWYG authoring
  - Fully integrated environment
  - Open database architecture
  - Versioning and incremental update
  - EAGLE interface and data synchronization
- **Benefits**
  - Fully compliant with tri-service IETM specifications
  - One tool for the job
  - Supports distributed authoring
  - No programming or SGML tagging
  - Enhanced data and link management

Run-time System Features

- **Features**
  - Intelligent viewer with dynamic context filtering
  - Intuitive navigation controls
  - Bookmarks & annotations
  - Session recording
  - External system interface
  - Incremental update
- **Benefits**
  - Supports both web and standard implementations
  - Seamless integration with CBT and expert system applications
  - Rapid data access and increased accuracy

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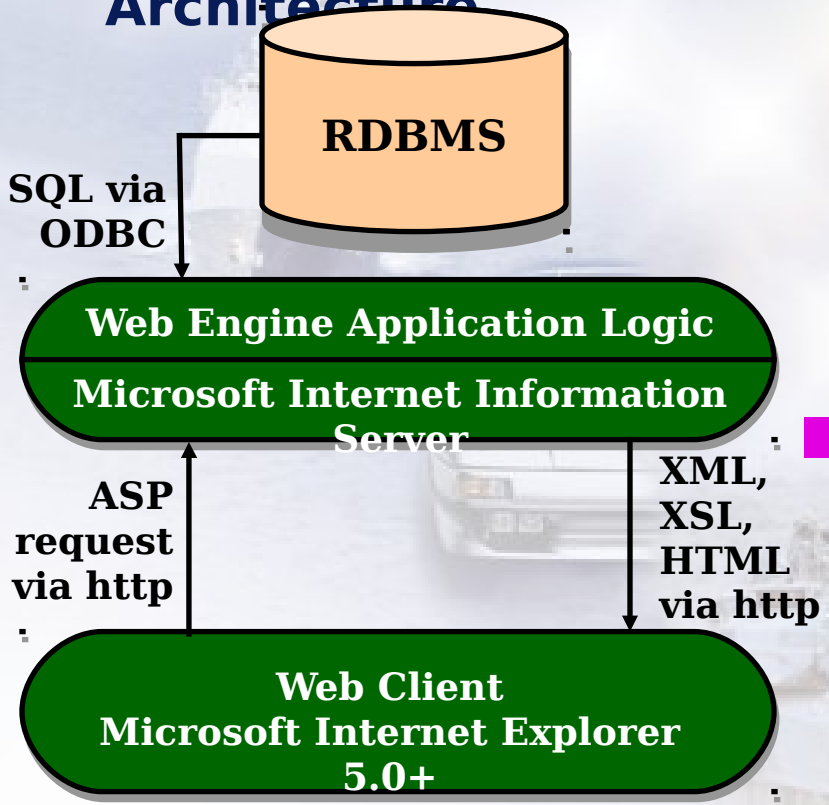
AIMS Web Enabled Run-time

- **Database Tier**
- **Application Server Tier (Web Engine)**
  - Built upon Microsoft Windows NT, Internet Information Server, and Active Server Pages (ASPs)
  - All communication via http
  - Developed in C++ for performance
- **Client Tier (Web Client)**
  - Runs on Microsoft Internet Explorer 5.0+
  - All data content transmitted as XML
  - Presentation specified as XSL (at the level of the TEXT, DIALOG, TABLE, etc., elements)
  - Interactivity achieved via HTML with Java and Javascript

Three Tier Architecture



Open Architecture

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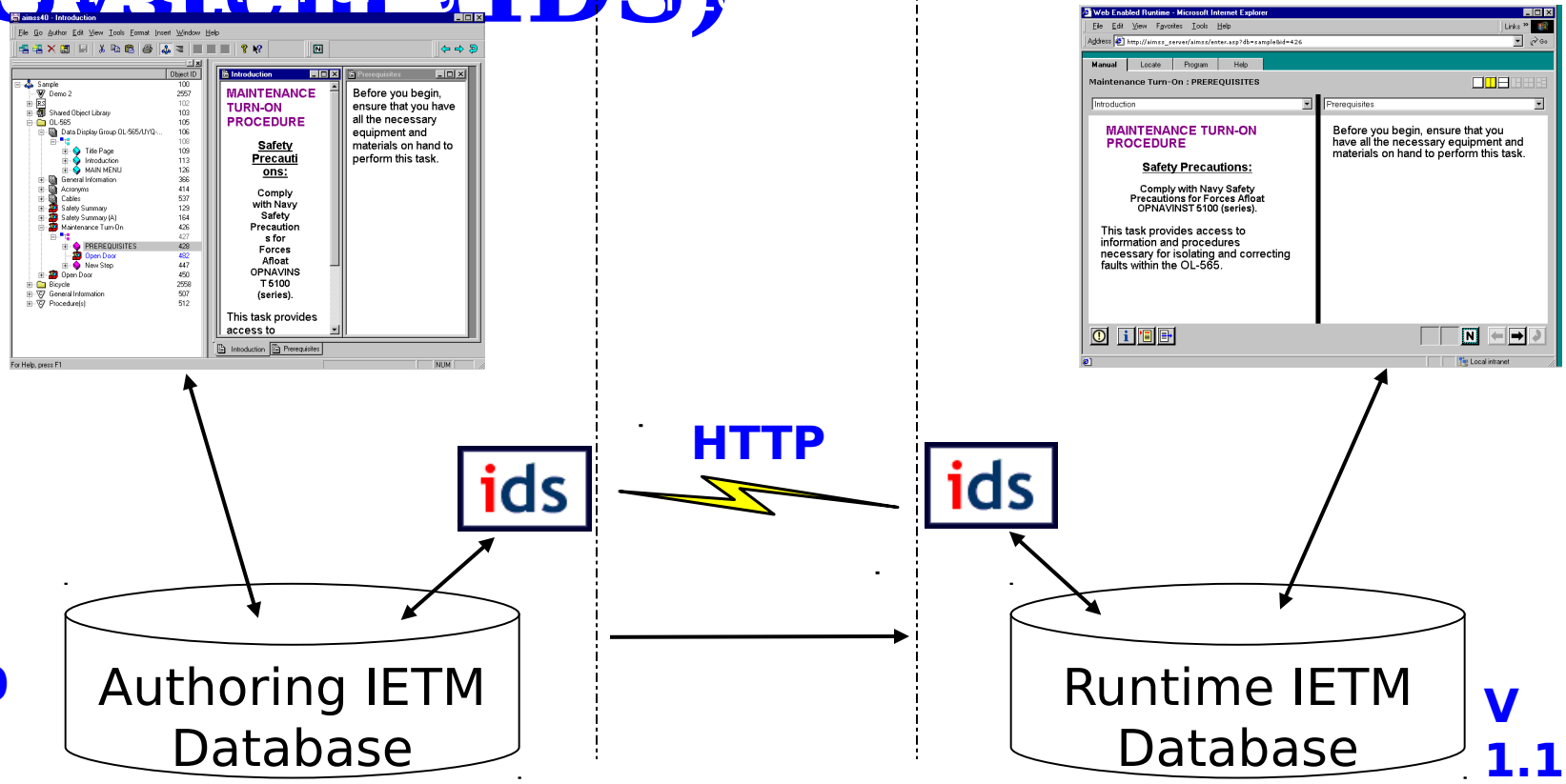
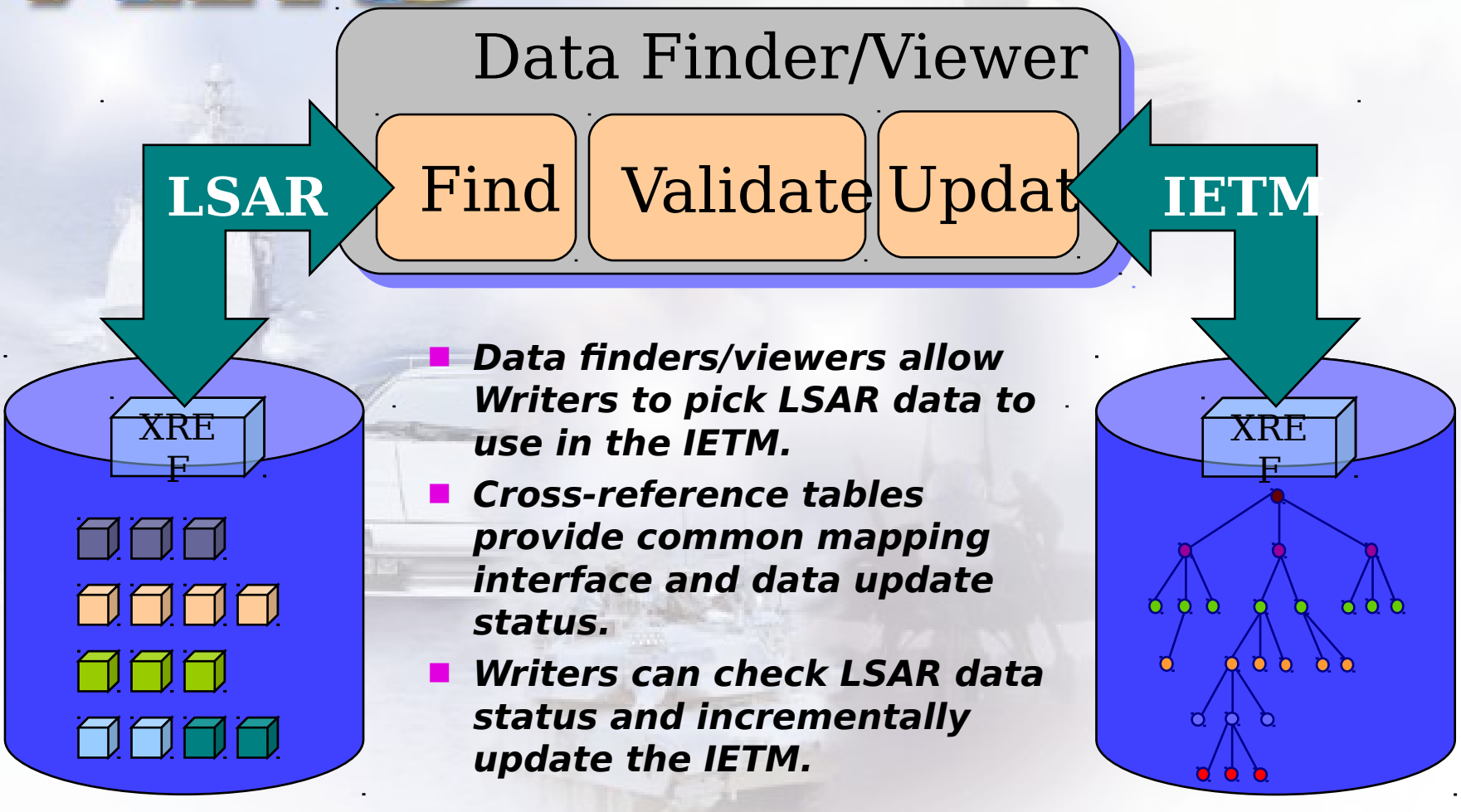
Incremental Delivery System (IDS)


MAINTENANCE TURN-ON PROCEDURE
Safety Precautions:
Comply with Navy Safety Precautions for Forces Afloat OPNAVINST 5100 (series).
This task provides access to information and procedures necessary for isolating and correcting faults within the OL-565.
Before you begin, ensure that you have all the necessary equipment and materials on hand to perform this task.
ids
HTTP
ids
Authoring IETM Database
Runtime IETM Database
V 1.0
V 1.1
V 2.0
V 1.1

- Limited bandwidth usage by sending only changes across
- Frequent updates can be done cheaply and accuratelyb

AIMSS/EAGLE Interface



- ***Data finders/viewers allow Writers to pick LSAR data to use in the IETM.***
- ***Cross-reference tables provide common mapping interface and data update status.***
- ***Writers can check LSAR data status and incrementally update the IETM.***

EAGLE DB

AIMSS DB

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Development
AIMSS "Enterprise"